

- a) BLC = RP-II protease from *Bacillus licheniformis*,  
 b) AA513 = RP-II protease from *Bacillus halmapalus* AA513  
 c) AC116 = RP-II protease from *Bacillus licheniformis* AC116  
 d) BO32 = RP-II protease from *Bacillus pumilus* BO32  
 e) CDJ31 = RP-II protease from *Bacillus licheniformis* CDJ31  
 f) JA96 = RP-II protease from *Bacillus pumilus* JA96  
 g) MPR = RP-II protease from *Bacillus subtilis* IS75

- a) 1 SVIGSDDRTRVTNTTAYPYRAIVHIS...SSIGSCTGWMIGPKTVATAG 46  
 b) VVIGDDGRRQVQNTSFMPFRALTYIEFGNLTSTWSCSGGVIGTDLVVTNA
- a) 47 HCIYDTSSGSFAGTATVSPGRNGTSYPYGSVKSTRYFIPSGWR.SGNTNY 95  
 b) HCV...EGSVL.AGTVVPGMNSQWAYGHYRVTQIIYPDQYRNGASEF
- a) 96 DYGAIELS...EPIGNTVGYFGYSYTTSSLVGTTVTISGYPGDKTAGT 140  
 b) DYAILRVAPDSDGRHIGNRAGILSFTETGTVNENTFLRTYGYPGDKISET
- a) 141 Q...WQHSG.PIAISETYKLQYAMDYGGQSGSPVFEQSSSRTNCSGPC 185  
 b) KLISLWGMVGRSDAFLHRDLLFYNMDTYFGQSGSPVLNSVDSMVAVHNAG
- a) 186 SLAVHTNGVYGGSSYNRGTRITKEVFDNLTNWKNNSAQ 222  
 b) YIVGGNREINGGPKIRRDFTNLFNQMN.....
- a) 1 SVIGSDDRTRVTNTTAYPYRAIVHISSSIGSCTGWMIGPKTVATAGHCIY 50  
 c) SVIGSDERTRVTDTTAFPYRAIVHISSSIGSCTGWLIGPKTVATAGHCVY
- a) 51 DTSSGSFAGTATVSPGRNGTSYPYGSVKSTRYFIPSGWRSGNTNYDYGAI 100  
 c) DTASRSFAGTATVSPGRNGSAYPYGSVTSTRYFIPSGWQSGNSNYDYAAI
- a) 101 ELSEPIGNTVGYFGYSYTTSSLVGTTVTISGYPGDKTAGTQWQHSGPIAI 150  
 c) ELSQPIGNTVGYFGYSYTASSLAGAGVTISGYPGDKTTGTQWQMSGTIIV
- a) 151 SETYKLQYAMDYGGQSGSPVFEQSSSRTNCSGPCSLAVHTNGVYGGSSY 200  
 c) SETYKLQYAITDYGGQSGSPVYEKSSSRTNCSGPCSLAVHTNGVYGGSSY
- a) 201 NRGTRITKEVFDNLTNWKNNSAQ 222  
 c) NRGTRITKEVFDNFTSWKNNSAQ 222

Fig. 1a

a) 1 SVIGSDDRTRVTNTTAYPYRAIVHISSSIGSCTGWMIGPKTVATAGHCIY 50  
d) VVIGDDGRTRKTVANTRVAPYNSIAYTTFFGGSSCTGTLIAPNKILTNGHCVY

a) 51 DTSSGSFAGTATVSPGRNGTSYPYGSVKSTRYFIPSGW.RSGNTNYDYGA 99  
d) NTASRSYSAGKSVYPGMNDSTAVNGSANMTEFYVPSGYINTGASQYDFAV

a) 100 IELSEPIGNTVGYFGYSYTTSSLVGTTVTISGYPGDKTAGT...QWQHS 145  
d) IKTDTNIGNTVGYRSIRQVT.NLTGTTIKISGYPGDKMRSTGKISQWEMS

a) 146 GPIAISETYKLQYAMDYGGQSGSPVFEQSSSRTNC.SGPCSLAVHTNGV 194  
d) GPVTREDTNLAYYMIDTFSGNSGSAMLDQNQQIVGVHNAGYSNGTINGGP

a) 195 YGGSSYNRGTRITKEVFDNLTNWKNFAQ 222  
d) KATAAFVEFINYAKAQ.....

a) 1 SVIGSDDRTRVTNTTAYPYRAIVHISSSIGSCTGWMIGPKTVATAGHCIY 50  
e) SVIGSDERTRVTNTTAYPYRAIVHISSSIGSCTGSLIGPKTVATAGHCIY

a) 51 DTSSGSFAGTATVSPGRNGTSYPYGSVKSTRYFIPSGWRSGNTNYDYGAI 100  
e) DTASGSFAGTATVSPGRNGSTYPYGSVTSTRYFIPSGYRSGNSNYDYGAI

a) 101 ELSEPIGNTVGYFGYSYTTSSLVGTTVTISGYPGDKTAGTQWQHSGPIAI 150  
e) ELSQPIGNTVGYFGYSYTTSSLVGSSVTIIGYPGDKTSGTQWQMSGNIAV

a) 151 SETYKLQYAMDYGGQSGSPVFEQSSSRTNCSGPCSLAVHTNGVYGGSSY 200  
e) SETYKLQYAITDYGGQSGSPVYEASSSRTNCSGPCSLAVHTNGVYGGSSY

a) 201 NRGTRITKEVFDNLTNWKNFAQ 222  
e) NRGTRITKEVFDNLTNWKNFAQ

a) 1 SVIGSDDRTRVTNTTAYPYRAIVHISSSIGSCTGWMIGPKTVATAGHCIY 50  
f) VVIGDDGRTRKVTNTRVAPYNSIAYITFFGGSSCTGTLIAPNKILTNGHCVY

a) 51 DTSSGSFAGTATVSPGRNGTSYPYGSVKSTRYFIPSGW.RSGNTNYDYGA 99  
f) NTATRSYSAGKSVYPGMNDSTAVNGSANMTEFYVPSGYINTGASQYDFAV

a) 100 IELSEPIGNTVGYFGYSYTTSSLVGTTVTISGYPGDKTAGT...QWQHS 145  
f) IKTDTNIGNTVGYRSIRQVT.NLTGTTIKISGYPGDKMRSTGKVSQWEMS

a) 146 GPIAISETYKLQYAMDYGGQSGSPVFEQSSSRTNC.SGPCSLAVHTNGV 194  
f) GPVTREDTNLAYYTIDTFSGNSGSAMLDQNQQIVGVHNAGYSNGTINGGP

a) 195 YGGSSYNRGTRITKEVFDNLTNWKNFAQ 222  
f) KATAAFVEFINYAKAQ.....

Fig. 1b

a) 1 SVIGSDDRTRVTNTTAYPYRAIVHIS.....SSIGSCTGWMIGPKTVAT 44  
g) SIIGTDERTRISSTTSFPYRATVQLSIKYPNTSSSTYGCTGFLVNPNTVVT

a) 45 AGHCIYDTSSGSFAGTATVSPGRNGTSYPYGSVKSTRYFIPSGW.RSGNT 93  
g) AGHCVYSQDHG.WASTITAAPGRNGSSYPYGTYSGMTMFYSVKGWTESKDT

a) 94 NYDYGAIELSEPIGNTVGYFGYSYT.TSSLVGTTVTISGYPGDKTAGTQW 142  
g) NYDYGAIKLNGSPGNTVGWYGYRTTNSSSPVGLSSSVTGFPCDKTFGTMW

a) 143 QHSGPIAISETYKLQYAMDYGGQSGSPVFEQSSSRTNCSGPCSLAVHTN 192  
g) SDTKPIRSAETYKLTYTTDTYGCQSGSPVYRNYSD....TGQTAIAIHTN

a) 193 GVYGGSSYNRGTRITKEVFDNLTNWKNQAQ 222  
g) ...GGSSYNLGTRVTNDVFNNIQYWANQ..

Fig. 1c

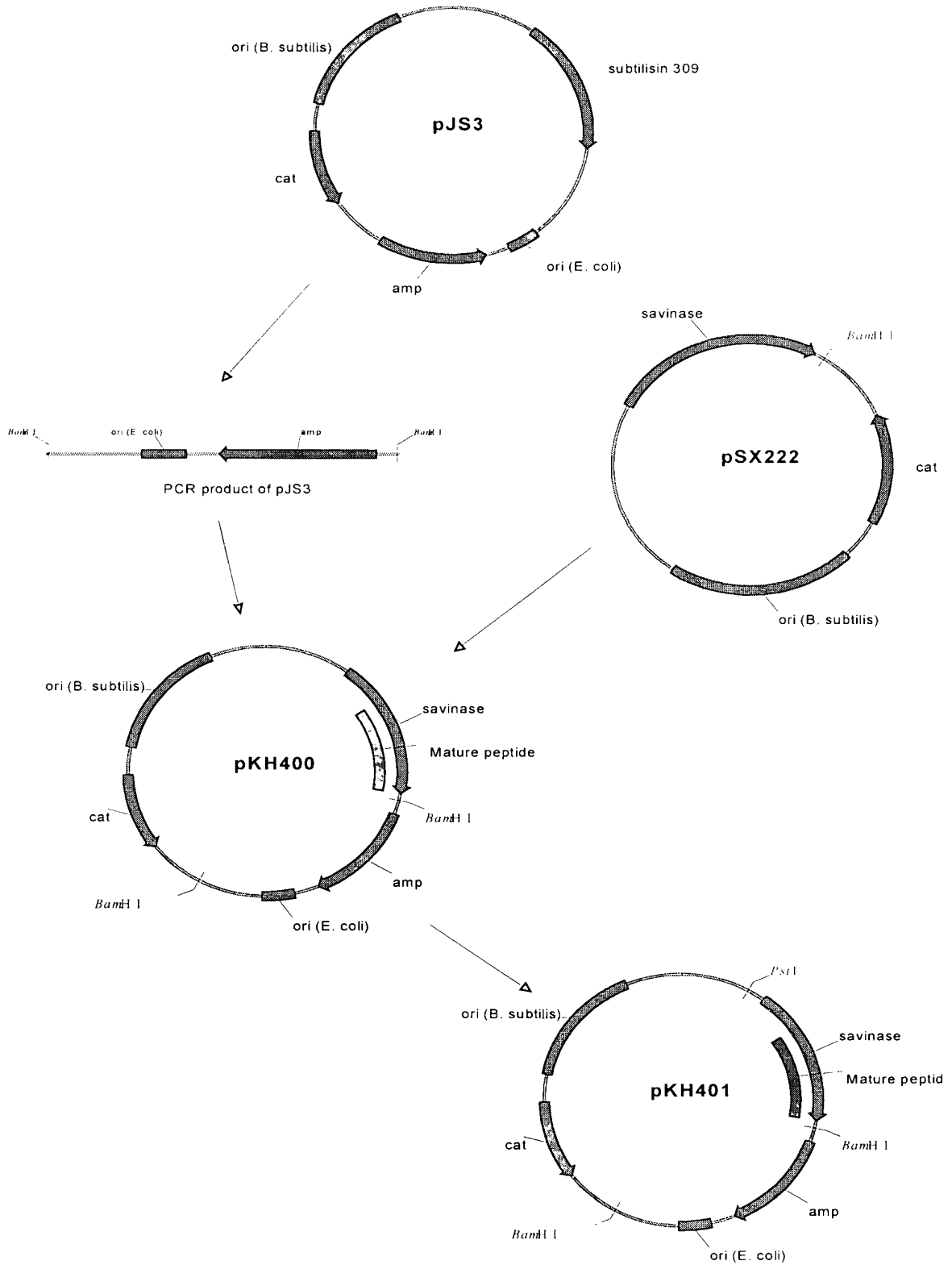


Fig 2a

